Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-14-76 **Date: 18-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No.40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-14-76 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg.Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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2. The information furnished by Customer/Representative
3. Any correction in the report will make this report invalid
4. This report without prior written approval should not be reproduced or published in full or part.
5. Samples will be disposed after 90 days from the date of issue of test certificate

AE-2
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zone)
Yelahanka, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-12-14-76 **Date: 13-11-18**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-14-76 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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AE-2
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-14-76** **Date: 19-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-14-76 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-14-76** **Date: 18-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-14-76 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

AE-2
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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-12-14-76** **Date: 18-10-18**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-14-76 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE-2
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(BBMP
Yelahanka

AE-02

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-14-76** **Date: 12/11/2018**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-18
Sample ID No	:	2018-12-14-76 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.48 X 150.52 X 150.47	22650	8.312	389.6	17.2	17.4
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.48 X 150.56 X 150.43	22656	8.331	398.8	17.6	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.42 X 150.51 X 150.38	22640	8.345	396.2	17.5	

Note:

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Executive Engineer
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(BBMP Ynk. Zn)
Yelahanka, Banga

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2018

Lab ID	:	CP-2018-12-14-76
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-18
Sample ID No	:	2018-12-14-76 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.52 X 150.48 X 1500.43	22650	8.312	539.1	23.8	23.7
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 150.48 X 150.45	22653	8.331	532.4	23.5	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.52 X 150.43 X 150.39	22643	8.345	536.6	23.7	

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Asst. Executive Engineer
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-14-76** **Date: 12/11/2018**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-18
Sample ID No	:	2018-12-14-76 /03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.53 X 150.54 X 150.32	22661	8.312	389.8	17.2	17.5
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.52 X 150.46 X 150.33	22647	8.331	400.9	17.7	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.38 X 150.52 X 150.39	22635	8.345	396.1	17.5	

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Asst. Executive Engineer
Yelahanka Sub. Division
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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-12-14-76
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-18
Sample ID No	:	2018-12-14-76 /04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2018

Date: 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.38 X 150.44 X 150.52	22623	8.312	538.4	23.8	23.8
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 150.44 X 150.47	22647	8.331	541.3	23.9	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 150.42 X 150.37	22644	8.345	536.7	23.7	

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Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-14-76 **Date: 12/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-19/WO/000035/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-18

Sample ID No : 2018-12-14-76 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.35 X 150.46 X 150.54	22622	8.312	393.6	17.4	17.6
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.48 X 150.37 X 150.46	22628	8.331	398.2	17.6	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.38 X 150.48 X 150.52	22629	8.345	400.5	17.7	

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AE-2
Asst. Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-14-76 Date: 03/12/2018

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP,Bangalore.

Project Name : Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-19/WO/000035/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-18

Sample ID No : 2018-12-14-76 /06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.41 X 150.52 X 150.47	22640	8.312	538.8	23.8	23.6
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.44 X 150.56 X 150.45	22650	8.331	530.0	23.4	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.32 X 150.44 X 150.53	22614	8.345	536.0	23.7	

Note:
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Yelahanka, Bangalore
AE-02

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-14-76**

Date: 12/11/2018

Customer : Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP,Bangalore.

Project Name : Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064

Customer's Reference : EE(YNK.D)E-PMT-19/WO/000035/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-11-18

Sample ID No : 2018-12-14-76 /07

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	12/11/2018	150.52 X 150.46 X 150.41	22647	8.312	398.6	17.6	17.7
2	Drain Concrete	M20	05/11/2018	12/11/2018	150.44 X 150.51 X 150.45	22643	8.331	403.0	17.8	
3	Drain Concrete	M20	05/11/2018	12/11/2018	150.39 X 150.56 X 150.36	22643	8.345	400.8	17.7	

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Yelahanka Sub. Division
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Authorized Signatory
Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/12/2018

Lab ID	:	CP-2018-12-14-76
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-18
Sample ID No	:	2018-12-14-76 /08
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/11/2018	03/12/2018	150.48 X 150.52 X 150.35	22650	8.312	530.0	23.4	23.4
2	Drain Concrete	M20	05/11/2018	03/12/2018	150.52 X 150.48 X 150.37	22650	8.331	525.5	23.2	
3	Drain Concrete	M20	05/11/2018	03/12/2018	150.54 X 50.43 X 150.53	7592	8.345	179.9	23.7	

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Certificate No.: TC- 5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 10-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-12-18
Sample ID No	:	2018-12-14-76/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	07-12-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.8	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	13.5		
Strength	Aggregate Impact Value	22.6	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.65	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.22	Maximum 2%	IS:2386 Part III

Note:-
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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 05-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-12-18
Sample ID No	:	2018-12-14-76
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	04-12-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	51.4	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	246	Min. 220°C
	Fire point, °C	272	

Note:-
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Lab ID : **CP-RW-2018-12-14-76** **Date: 12-12-18**

Sample ID : **2018-12-14-76/01**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 478

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	67	71	14.9	85.1	70-88
4.75	113	184	38.5	61.5	53-71
2.36	98	282	59.0	41.0	42-58
1.18	28	310	64.9	35.1	34-48
0.6	18	328	68.6	31.4	26-38
0.3	47	375	78.5	21.5	18-28
0.15	48	423	88.5	11.5	12-20
0.075	55	478	100.0	0.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	68	72	15.1	84.9	70-88
4.75	112	184	38.6	61.4	53-71
2.36	93	277	58.1	41.9	42-58
1.18	36	313	65.6	34.4	34-48
0.6	18	331	69.4	30.6	26-38
0.3	46	377	79.0	21.0	18-28
0.15	45	422	88.5	11.5	12-20
0.075	55	477	100.0	0.0	4-10

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2018-12-14-76**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-18
Sample ID No	:	2018-12-14-76/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	05-12-18

Date: 08-12-18

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.5	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	12.3		
Strength	Aggregate Impact Value	22.6	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.61	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

Note:-

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Certificate No.: TC- 5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-14-76**
		Date: 06-12-18
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-12-18
Sample ID No	:	2018-12-14-76
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-12-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 06-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-12-18
Sample ID No	:	2018-12-14-76
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	04-12-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.0%	

Note:-
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-12-14-76**
Customer	:	Assistant Executive Engineer,Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP,Bangalore.
Project Name	:	Intimation of Work Order to Start the Work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-10-18
Sample ID No	:	2018-12-14-76 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	22-10-18

Date: 23-10-18

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2018-12-14-76 **Date: 05-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-12-18
Sample ID No	:	2018-12-14-76
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	03-12-18
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.96	90.04	80-100
26.5	1686	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	896	9790	97.90	2.10	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.73%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 07-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-18
Sample ID No	:	2018-12-14-76/01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	05-12-18
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	173	173	3.46	96.54	90-100
19	1014	1187	23.74	76.26	71-95
13.2	521	1708	34.16	65.84	56-80
4.75	1149	2857	57.14	42.86	38-54
2.36	711	3568	71.36	28.64	28-42
0.3	1093	4661	93.22	6.78	7-21
0.075	271	4932	98.64	1.36	2-8
PAN	70	5002	0.00	0	0

Note:-
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AE-2

Asst. Executive Engineer AE-02
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

FOR CIVIL Pro.
R KARTHIK RECHAN
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Quality Manager

CIVIL PRO BANGALORE Sig Date

End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 08-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-18
Sample ID No	:	2018-12-14-76/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	05-12-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.0	3.0	97.8	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.5	1.5		

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AE-2

Asst. Executive Engineer
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 10-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-12-18
Sample ID No	:	2018-12-14-76/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	07-12-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.5	2.5	98.3	Minimum Retained Coating 95%
2	99.0	1.0		
3	98.5	1.5		

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AE-2
Asst. Executive Engineer
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Yelahanka, Bangalore

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-12-14-76** **Date: 07-12-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Intimation of work order to Start the work of Improvements to Roads and Drains at Kenchenahalli village near OHT tank in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.N.Shivakumar, No:40, Nagenahalli, Yelahanka, Bangalore-560064
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000035/2018-19
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	05-12-18
Sample ID No	:	2018-12-14-76/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	05-12-18

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	478
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.4
4	Average percentage	%	4.6	

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Lab ID : **CP-RW-2018-12-14-76** **Date: 07-12-18**

Sample ID No : **2018-12-14-76/01**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	48	48	10.1	89.9	71-95
13.2	46	94	19.7	80.3	56-80
4.75	267	361	75.7	24.3	38-54
2.36	75	435	91.4	8.6	28-42
0.3	29	464	97.5	2.5	7-21
0.075	12	476	100.0	0.0	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	47	47	9.8	90.2	71-95
13.2	16	63	13.2	86.8	56-80
4.75	297	360	75.3	24.7	38-54
2.36	73	433	90.6	9.4	28-42
0.3	31	464	97.1	2.9	7-21
0.075	9	473	99.0	1.0	2-8

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End of Report